

## Identification of Achievable Performance Standards

Source Category: Aerospace Assembly and Component Coating Operations <sup>(a)</sup>

Regulated Component	Pollutant	Rule/Measure/Date									
		More stringent limits only M AQMD Rule 1118 10/28/96		More stringent limits only ICAPCD Rule 425 3/3/92		More stringent limits only SBCAPCD Rule 337 10/20/94		More stringent limits only SJUAPCD Rule 423 12/19/96		More stringent limits only SMAQMD Rule 456 9/5/96	
		Performance Standard									
VOC	VOC ROC		exempts PCE	X	does not exempt PCE	X	Rule 102 does not exempt PCE	X	Rule 2 does not exempt PCE		Rule 101 exempts PCE
adhesives and coating application, general solvent limit	VOC	X	reduce organic solvent or materials containing organic solvent by 85% Rule 442								
spray coating equipment, general	paint or coating										
ablative coating	VOC			X	600					X	600
ablative coating military	VOC										
adhesive, commercial interior	VOC										
adhesive, cyanoacrylate	VOC										
adhesive, elastomeric	VOC				850						
adhesive, fuel tank	VOC							X	620		
adhesive, promotor	VOC ROC								850		890
adhesive, rocket motor bonding	VOC										
adhesive, rubber-based	VOC										
adhesive, non-structural	VOC ROC	X	250					X	250		

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		Performance Standard									
adhesive, structural epoxy	VOC			X	50 UNDEFINED SEE SD						
adhesive, structural autoclavable	VOC ROC	X	50	X	50			X	50		
adhesive, structural non-autoclavable	VOC ROC		700	X	250				850		
adhesive, all other	VOC										
adhesive bonding primer	VOC ROC	X	250	X	250	X	250	X	250		
adhesive bonding primer, elastomeric	VOC							X	800 250 (5/1/02)		
adhesive bonding primer, long term metal to structural core bonding	VOC							X	800 250 (5/1/98)		
adhesive bonding primer, short term metal to structural core bonding	VOC								800 250 (5/1/02)		
adhesive bonding primer, decorative laminating	VOC							X	800		
adhesive bonding primer, military	VOC							X	700 250 (5/1/02)		
adhesive bonding primer, nitrile phenolic (metal to metal)	VOC							X	800 250 (5/1/02)		

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		Performance Standard									
adhesive bonding primer, all others	VOC			X	350 7/1/94						
antichafe	VOC							X	600		
barrier a.k.a. fastener lubricative, barrier coating	VOC ROC										
bearing	VOC										
caulking and smoothing compounds	VOC										
chemical agent-resistant (CARC)	VOC		500								
commercial exterior aerodynamic structural primer	VOC							X	650		
conformal	VOC ROC								750	X	600
corrosion prevention compound	VOC										
cryogenic flexible primer	VOC										
cryoprotective coating	VOC										
electric or radiation effect coating	VOC ROC		800				800		800	X	600

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		Performance Standard									
elevated temperature skydrol resistant commercial primer	VOC										
extreme performance interior coating, barrier	VOC	X	420								
fastener, <u>installation</u> , solid-film lubricant	VOC							X	880		
fastener, <u>installation</u> , dry lubricative material	VOC							X	675		
fastener, <u>lubricative</u> , solid- film lubricant	VOC ROC			X	250				800		
fastener, <u>lubricative</u> , dry lubricative material	VOC ROC							X	120		
fastener, <u>lubricative</u> , barrier coating	VOC							X	420		
<u>non-fastener lubricative</u> , solid film lubricant	VOC ROC			X	880			X	880	X	880
<u>non-fastener lubricative</u> , dry lubricative material	VOC ROC							X	675		
fastener, wet installation coating	VOC										600 wet seal primer

**Table I (2 of 2)**  
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		Performance Standard									
fire insulation coating, interior fire-resistant, civilian	VOC ROC		650			X	600		650		
fire-resistant, military	VOC	X	970								
flight-test coating, missiles or single use target	VOC ROC			X	420			X	420		
flight-test coating, all other	VOC ROC							X	600		
fuel tank coating	VOC ROC		720	X	420			X	420		
fuel tank coating, epoxy	VOC							X	680 420 (5/1/98)		
fuel tank coating, rubber	VOC										
high-temperature coating, >350°F	VOC ROC		720				720			X	420
impact resistant	VOC							X	420		
insulation covering, applied to foam insulation	VOC										
lacquer	VOC										
metallized epoxy coating	VOC										
mold release	VOC									X	762 available & in-use proposed 1-22-98

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		Performance Standard									
optical anti-reflective	VOC ROC							X	700		
part marking	VOC									X	850 (12-31-98)
pretreatment wash primer, 0.5% acid	VOC ROC		780			X	400		780		
primer	VOC ROC HAP	X	350			X	350	X	350		
primer, flexible	VOC										
primer, low solids corrosion resistant	VOC							X	650 commercial exterior aerodynamic structural primer		
primer, not resistant to phosphate esters	VOC ROC										
primer, resistant to phosphate esters	VOC ROC										
primer, compatible w/ rain resistant coating	VOC										
rain erosion-resistant	VOC ROC	X	600			X	600		800	X	600
rain erosion resistant, fluoroelastomer	VOC									X	800
rocket motor nozzle	VOC										

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		Performance Standard									
sealant	VOC ROC	X	600			X	600	X	600	X	600
sealant, extrudable/rollable/brusha ble	VOC										
self-priming topcoat, unicoat	VOC RO C	X	420			X	420	X	420	X	420
sealant bonding primer, used before silicone sealant	VOC		720								
silicone insulation material	VOC										
scale inhibitor	VOC ROC							X	850 typo suppose to be 880		
screen print ink	VOC										
space-vehicle, adhesive	VOC ROC							X	800		
space-vehicle coating, electrostatic discharge protective coating & other	VOC ROC	X	800	X	800	X	800	X	800		
space-vehicle coating, thermocontrol	VOC ROC			X	600						
space-vehicle coating, other	VOC ROC	X	1000			X	1000	X	1000	X	1000

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		Performance Standard									
temporary protective coating	VOC ROC	X	250	X	250	X	250	X	250	X	250
thermal control	VOC									X	600
thermal expansion release	VOC										762
topcoat, general	VOC HAP		420								
topcoat, clear	VOC							X	520		
topcoat, epoxy polyamide	VOC										
topcoat, interior	VOC ROC	X	340			X	340				
topcoat, acrylic lacquer for F-111	VOC									X	780
wing	VOC ROC		750					X	750		
wire, electronic	VOC ROC							X	420		
wire, anti-wicking	VOC ROC							X	420		
wire, pre-bonding etchant	VOC ROC							X	420		
phosphate ester resistant ink	VOC ROC							X	925		
all other or general	VOC	X	350								
maskant, chemical processing	VOC		600								



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		Performance Standard									
maskant, chemical milling	VOC ROC HAP	X	622 type I 160 type II	X	250 does not exempt PCE		does not exempt PCE	X	250 does not exempt PCE	X	622 type I (12-31-98) 160 type II (12-31-98)
maskant, photolithographic	VOC										
maskant, touch-up, liner- sealer	VOC										
maskant, bonding	VOC										
maskant, critical use an line sealer	VOC										
maskant, seal coat	VOC										
solvent use, surface preparation, clean up or mixing	VOC ROC HAP		<= 45 mm Hg at 20°C or <= 200 g/L		<= 200 g/L ROC or 45 mm Hg at 20°C composite VP				<= 200 g/L or 45 mm Hg (0.87 psia) at 68°F (20°C)		proposed 2/98 <= 200 g/L or <= 45 mm Hg at 20°C
solvent use, storage/disposal of coating or stripper containing organic solvent	VOC ROC HAP		keep closed except during extraction or introduction of material for mixing, use or storage		- proposed 10/97 closed containers - transported to a permitted waste disposal facility in sealed metal or plastic molded drums with snap-on or screw-type lids		closed container		closed containers		-closed containers for disposal -containers closed when not in use -disposed in a manner that the VOC are not emitted into the atm

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		Performance Standard									
solvent use, cleaning spray equipment	VOC ROC HAP				- enclosed or sealed apparatus with 85 % of the ROC collected and properly disposed of such that they are not emitted to the atm - spray gun cleaning; enclosed gun cleaner				- enclosed system or enclosed gun washer		-except for electrostatic spray guns, shall not use VOC-containing materials for the cleaning of spray guns unless the spray gun is cleaned in an enclosed gun cleaner -proposed 2/98 spray gun nozzles may be soaked solvent-based materials for cleaning provided the container, <= 5 gallons, is keeep closed except when accessing the container
stripper, organic	VOC ROC HAP		< 400 g/L	X	<= 200 g/L ROC		<= 400 g/L ROC or 10 mm Hg at actual use temperature	X	<= 300 g/L or <= 9.5 mm Hg (0.18 psia) at 68°F (20°C)		
stripper, inorganic	HAP										
spray application equipment transfer equipment	VOC ROC HAP	X	- electrostatic, flow, dip, HVLP, electrodeposition, hand, detailing or touch-up gun - alternative =		- electrostatic, flow, dip, hand, HVLP - airless for maskants and temporary protective coating - alternative >= 65 %	X	- electrostatic, flow, dip, HVLP, electrodeposition, hand, detailing or touch-up guns - alternative 65 %	X	electrostatic, electrodeposition, HVLP, flow, roll, dip, brush	X	- hand, dip, flow, roll, electrodeposition, electrostatic, HVLP, LVLP - alternative =

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		Performance Standard									
control equipment, capture efficiency	VOC ROC HAP		>= 85 % combined capture & control	X	proposed 10/97 >= 90 %	X	>= 90 %	X	>= 90 %	X	>= 90 % proposed 2/98 85% overall system
control equipment, control efficiency	VOC ROC HAP		>= 85 % combined capture & control	X	proposed 10/97 >= 95 %	X	>= 95 %	X	>= 95 %	X	>= 95 % -proposed 2/98 85% overall system
averaging or an alternative emission control plan (AECP)	VOC ROC HAP		- daily RK - monthly volume weighted average - within coating class - uncontrolled only - facility-wide or process line		no		no		no		Rule 107 AECP
labeling	VOC ROC		- date contents were mfg. or code - explanation if code is used - VOC content as applied -recommended thinning that does not exceed the VOC limits		proposed 10/97 - max ROC content after mixing or thinning as recommended - ROC g/L		- date or code content mfg - mfg recommendation thinning - max ROC g/L or lb/gal or VOC content			X	proposed 2/98 deleted labeling req. added seller information req. - material type by name/code/mfg - max VOC as applied - mixing recommendation - strippers, solvents max VOC content g/L - VOC content

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recordkeeping, data	VOC ROC HAP	<p>VOC content via label, product information sheet or MSDS</p> <p>material list: - mfg. ID - application method - type&amp; specific use instructions - specific mixing ratio - max. VOC content as applied (including thinning solvents)</p> <p>purchase records: - type &amp; volume</p> <p>monthly: - exclusive coating formulations</p> <p>daily: - volume - VOC content - resulting VOC emissions - summarize cumulatively on a monthly basis and for each calendar year</p>	<p>- list of material - name &amp; mfg ID - mixing instruction - ROC content - weight % water - weight % exempt compounds - solvent composition &amp; density - solids content, less water as applied</p>	<p>- name &amp; mfg ID - application method - material type &amp; specific use - max ROC content - current mfg specification sheet, MSDS, or air quality data sheet - purchase records ID type or name and volume - monthly volume, ROC content, ROC emissions of each material used - annual summary</p>	<p>coating mfg data listed, on label, product data sheet, or MSDS - mfg name &amp; type - mix ration by volume - VOC - VOC less water, less exempt - volume &amp; method of application - vapor pressure of solvents</p>	<p>- list of material - material type name/code/mfg - VOC content - mixing ratio - id each material type exceeding the VOC limits of the rule - product information sheet provided by the seller</p>

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		Performance Standard					
recordkeeping, usage coating	VOC ROC HAP	see data above	above data + - daily use - report annual of each coating amount with each application equip., method of application, amount of other solvent and exempt solvent used, ROC of each solvent, amount of ROC, solids content	see data above	data above + coatings have been specified for their intended application - adhesion promotor - antichafe coating - electric/radiation effect - fuel tank adhesive - high temperature - impact resistant - optical anti-reflective - rain erosion resistant wing	see data above	
recordkeeping, usage solvent	VOC ROC HAP	see data above	above data - daily use - report annual of each coating amount with each application equip., method of application, amount of other solvent and exempt solvent used, ROC of each solvent	see data above	see data above	- usage amounts monthly - usage amount for non- compliant material	
recordkeeping, usage stripper	VOC ROC HAP	see data above	see solvent above	see data above	see data above	see usage solvent above	
recordkeeping, alternative allowed	VOC ROC HAP	no	yes	no	no	yes Rule 107 AECP	

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		Performance Standard					
recordkeeping, control equipment	VOC ROC HAP	daily key operating & maintenance procedures		data above + daily records of key operating and maintenance procedures	daily on key operating parameters & maintenance procedures	- daily usage amount - O & M plan	
retention of records	VOC ROC HAP	5 years for Title V source; 2 years H&SC 42705 5 years	5 years for Title V source; 2 years H&SC 42705 2 years	5 years for Title V source; 2 years H&SC 42705 3 years	5 years for Title V source; 2 years H&SC 42705 2 years	5 years for Title V source; 2 years H&SC 42705 3 years	
methylene chloride reduction plan	exempt VOC						
qualification acceptance testing progress report	VOC						
compliance statement required	VOC ROC				X yes		

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<sup>(a)</sup> performance standard is grams of volatile organic compounds (VOC) per liter, less exempt compounds, less water, applied unless otherwise indicated